

# Winding The Coil

## Mike's Electronic Parts, LLC.

### 1. Assemble the coil screws.

Items used: Coil Form, 3 – Screws, 3 – Nuts.

Put a screw through the coil form from the inside. Place a nut on the screw (outside) and tighten.

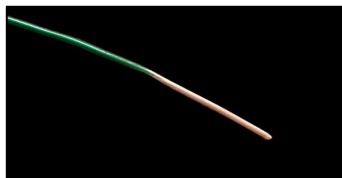


*Figure 1* Coil Form with Screws

### 2. Preparing the coil wire.

Items used: Coil Wire, Small Piece of Sandpaper.

The green insulation needs to be thoroughly removed from approximately the last inch of the wire. Sand off the green insulation from the end of the wire. You can squeeze the wire between your finger and the sandpaper and pull the wire. You may find it easier to fold the sandpaper in half around the wire. Either method you choose, pull the wire through the sandpaper until there is no more green showing. Do not worry about sanding exactly one inch, it is better to sand a little more than not enough.

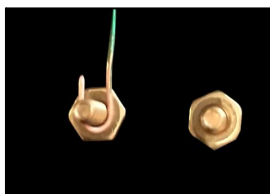


*Figure 2* Sanded Wire End

### 3. Wind the small coil.

Items used: Coil Form, Coil Wire, 1 – Nut, 1- Washer

There are two screws closer together on one side of the coil form. The coil winding will start with the screw closest to the end of the coil form. Left most screw in figure 1. Wrap the coil wire around the screw as shown in figure 3. Place a washer and a nut over the wire and tighten (figure 4). Wrap 7 turns of wire. Keep wire tight.



*Figure 3* Coil wire around screw



*Figure 4* Coil wire, washer and nut

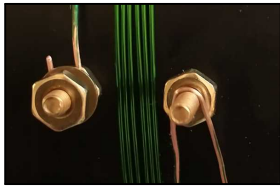
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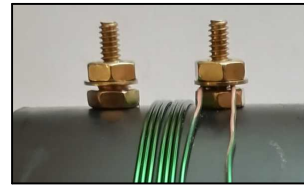
### 4. Prepare the center tap.

Items used: Coil Wire, Sandpaper, 1 – Nut, 1 – Washer.

Place the coil wire next to the center screw and note the location where the wire will wrap around the screw. Use the sandpaper to thoroughly remove the green insulation from the coil wire as previously done in step 2. Be sure the green is removed both before and after where the wire will contact the screw. Wrap the wire around the screw as shown in figure 5. Place a washer and nut over the wire. Keep wire tight while tightening the nut.



*Figure 5 Coil wire around center tap*



*Figure 6 Coil wire, washer, nut*

### 5. Winding the large coil.

Items used: Coil Wire, Coil Form, 1 – Washer, 1 – Nut.

The long coil section will be wound in the opposite direction of the short section. Wind 40 turns of coil wire around the coil form. It helps to keep the coil wire tight as you wrap the coil. As in the previous step, place the coil wire next to the screw on the end of the coil and note the location. Use the sandpaper to thoroughly remove the green insulation from the wire. Be sure the green insulation is removed both before and after the screw. Wrap the wire around the screw. Place a washer and a nut over the wire and tighten. Use wire cutters or finger nail clippers to cut the excess wire after the screw.

